PATENT COOPERATION TREATY





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

PRD200		dication No.	International filing date (day			·	rt (Form PCT/IPI	
PCT/EP			23.10.2003	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		31.10.2002		
Internation C07K14		ent Classification (IPC) or bo	oth national classification and	PC				
Applicant JANSSE	EN PH	HARMACEUTICA N.V.						
			nination report has been pr applicant according to Arti		this Inte	rnational Prelii	minary Examin	ing
2. This	s REP	ORT consists of a total o	of 6 sheets, including this c	over sheet.				
	bee	n amended and are the b	nied by ANNEXES, i.e. she pasis for this report and/or s 607 of the Administrative	heets cont	aining re	ectifications ma		
The	se an	nexes consist of a total o	of sheets.					
2 Thie	s ropo	rt contains indications rol	lating to the following items					
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10/532740JC20 Rec'd PCT/PTO 2 6 APR 2005

International application No.

PCT/EP 03/11793

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I. B	SISE	of the	e report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		Description, Pages								
		1-6	67	as originally filed						
		Sequence listings part of the description, Pages								
)		51	-67	as originally filed						
		Cla	aims, Numbers							
		1-3	34	as originally filed						
		Drawings, Sheets								
		1-1	0	as originally filed						
	2.	Wit lan	th regard to the lang guage in which the ir	lage , all the elements marked above were available or furnished to this Authority in the iternational application was filed, unless otherwise indicated under this item.	9					
		These elements were available or furnished to this Authority in the following language: , which is:								
			the language of a ti	anslation furnished for the purposes of the international search (under Rule 23.1(b)).						
			the language of put	olication of the international application (under Rule 48.3(b)).						
)			the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under .3).						
	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international applicat international preliminary examination was carried out on the basis of the sequence listing:									
		\boxtimes	contained in the inte	ernational application in written form.						
		Ø	filed together with the	ne international application in computer readable form.						
			furnished subseque	ntly to this Authority in written form.						
•			furnished subseque	ntly to this Authority in computer readable form.						
		Ø	The statement that the subsequently furnished written sequence listing does not go beyond the disclering the international application as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written listing has been furnished.								
	4.	The	amendments have i	esulted in the cancellation of:						
			the description,	pages:						
			the claims,	Nos.:						
			the drawings,	sheets:						

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	5.	. ⊔	been considered to go beyor				not been made, sind	ce they have		
			(Any replacement sheet con report.)	taining	such amend	ments must be referre	ed to under item 1 an	d annexed to this		
	6.	Add	ditional observations, if necess	sary:						
	H	l. No	n-establishment of opinion	with re	gard to nov	elty, inventive step a	nd industrial applic	ability		
•	1.	The	e questions whether the claime vious), or to be industrially app	ed inve licable	ntion appear have not be	s to be novel, to involven examined in respec	ve an inventive step et of:	(to be non-		
)			the entire international applic	cation,						
		\boxtimes	claims Nos. 1-34 (in part) and	d 27-3	4 (with respe	ct to industrial applical	oility)			
		•	because:							
		⊠	the said international applica relate to the following subject (specify):	tion, or t matte	the said clai r which does	ms Nos. 27-34 (with ro not require an interna	espect to industrial a tional preliminary ex	applicability) camination		
			see separate sheet			·		·		
			the description, claims or dra that no meaningful opinion co	wings ould be	(indicate part formed (spe	ticular elements below cify):) or said claims Nos	. are so unclear		
			the claims, or said claims No could be formed.	s. are	so inadequat	ely supported by the d	escription that no m	eaningful opinion		
	٠	\boxtimes	no international search repor claims not relating to the poly	t has b /nucled	een establish otide of SEQ	ned for the said claims ID NO:45 or the polyp	Nos. 1-34 (for the septide of SEQ ID NO	ubject-matter of 0:46)		
)	2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide a or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:								
			the written form has not been	n furnis	hed or does i	not comply with the St	andard.			
		□.	the computer readable form h	nas not	been furnish	ned or does not compl	y with the Standard.			
	V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	1.	Stat	ement							
		Nov	elty (N)	Yes: No:	Claims Claims	6-34 1-5				
		Inve	entive step (IS)	Yes: No:	Claims Claims	11-34 1-10				
		Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-26				

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2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 27-34 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: DATABASE GENEMBL [Online] 5 April 2001 (2001-04-05), STRAUSBERG,R. ET AL.: "Mus musculus RIKEN cDNA 1300002F13 gene, mRNA (cDNA clone MGC:6714 IMAGE:3585640), complete cds." XP002270084 Database accession no. BC005546

D2: CHRAPKIEWICZ N B ET AL: "RAT GENE 33 ANALYSIS OF ITS STRUCTURE MESSENGER RNA AND BASAL PROMOTER ACTIVITY" NUCLEIC ACIDS RESEARCH, vol. 17, no. 16, 1989, pages 6651-6668, XP001161090 ISSN: 0305-1048

Document **D1** discloses the sequence of the mouse RIKEN 1300002F13 cDNA consisting of 3034 nucleotides which shows 100% identity with the polynucleotide of SEQ ID NO:45 over its complete length. The mouse cDNA contains an ORF between nucleotides 255 and 1640 which encodes for a 462 amino acid polypeptide showing 100% identity over its whole length with the polypeptide of SEQ ID NO:46 over its whole length. Therefore, the subject-matter of **claims 1-5** is not new in the sense of Article 33(2) PCT.

Document D2 provides the sequence of the rat gene 33, which shows 89% identity in 2714 nucleotides overlap with the polynucleotide of SEQ ID NO:45. The polypeptide encoded by the rat gene 33 shows 92% identity in a 423 amino acids overlap with the polypeptide of SEQ ID NO:46. The subject-matter of **claims 1-5** can not be considered to involve an inventive step in the sense of Art. 33(3) PCT since they merely relate to

EXAMINATION REPORT - SEPARATE SHEET

the isolation of an ortholog of a known gene which requires no inventive skills.

Claims 6-10 relate to experimental variations of the polypeptide and polynucleotide sequences of claims 1-5 which can be carried out by the skilled person with standard knowledge and standard laboratory practice and for which no inventive step can be acknowledged.

However, none of the prior art documents teach or suggest that the expression of the claimed polypeptide could be under the control of a CRH signalling. Therefore, novelty and inventive step can be acknowledged for the subject-matter of claims relating to identifying compounds able to alter CRH signalling in a cell (claims 11-26) or methods for diagnosing a CRH inducing depression (claims 27-34), which are all based in the changes in the expression of the polypeptide of SEQ ID NO:46 or of the polynucleotide of SEQ ID NO:45 in response to CRH stimulation.